MC0251

HOSPITAL EQUIPMENT NOTE

PATHOLOGY DEPARTMENT

15

MINISTRY OF HEALTH : SCOTTISH HOME AND HEALTH DEPARTMENT
LONDON : HER MAJESTY'S STATIONERY OFFICE
MAY 1964

PRICE 5s. 0d. NET

Pathology Department

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I. Scope

This Equipment Note gives guidance on the basic equipment requirements for a Pathology Department. It is intended to be read in conjunction with Hospital Building Note No. 15 which relates to the design and planning of Pathology Departments at district general hospitals and also applies to hospital work requirements of teaching hospitals.

Post-mortem rooms have been dealt with in Equipment Note No. 20 (Mortuary and Post-Mortem Room).

II. General Considerations on the Use of Equipment Notes

Equipment Note No. 1 (Equipping a Hospital Building) provides an introduction to the series of departmental Equipment Notes, advice on their application and guidance on the task of preparing equipment schedules for individual building projects. This departmental Equipment Note is intended to be used within the general planning framework set out in Equipment Note No. 1 and in the manner described therein.

The following method of classifying equipment, which is explained in more detail in Hospital Equipment Note No. 1 is used throughout this Note:

The term " equipment " covers all items necessary for the functioning of the hospital and includes both non-technical (e.g. furniture) and technical equipment. Short-term consumable supplies such as fuel, stationery, food, drugs and dressings are not included.

Equipment is classified into three groups:

Group I: items usually supplied and fixed by the contractor for the works.

Group II: items having a permanent or semi-permanent location and having a significant effect on space and/or structural requirements:

(*a*) those supplied by the hospital authority and fixed by the contractor for the works;

(*b*) those supplied by the hospital authority and put in position by them or on their instructions outside the general construction contract.

Group III: smaller items, usually storage items, supplied and put in position by the hospital authority.

For convenience and to avoid separating related equipment all items which are normally sited on laboratory benches have been included in Group III.

III. Special Considerations in Respect of this Note

The equipment detailed in this Note is regarded as generally suitable for the department described in Building Note No. 15 and has been listed in room (or space) sequence conforming to the Building Note. The lists have been compiled to conform with the sizes and functions of the departments as described in Building Note No. 15, depending on the number of acute beds served and whether the service provided embraces all the divisions of work or is shared between two hospitals.

Where a shared service is provided at two hospitals the requirements for hospitals specialising in morbid anatomy, morbid histology and haematology are shown under hospital "A" and the requirements for hospitals specialising in chemical pathology and microbiology are listed under Hospital " B " to conform with the Appendix to Hospital Building Note No. 15.

It is realised that the requirements may vary according to the nature of work undertaken and the techniques employed in a particular department and some variations will often be necessary within the Basic Lists. Similarly, the need for the items shown under Additional Lists, and the quantities thereof, will depend on local circumstances. *As pointed out in Equipment Note No.* 1, *Section V, the requirements will need to be examined in consultation with the head of the department or main users.*

Some minor items have been grouped under the general headings General Glassware, Graduated Glassware, Laboratory Sundries and Porcelain Ware. These contain such items as beakers, syringes, test tubes, pipettes, filter pumps, bunsen burners, etc. Allowance for these and similar items has been made in arriving at the cost guide figures. Microscopes will vary in type according to requirements and have therefore been costed on this basis.

Some fixed items of equipment (Group I) have already been mentioned (and costed) in the Building Note, but it has been thought useful to include them again in the Equipment Note, which represents the results of a comprehensive review of the requirements. Reference should, however, be made to the Building Note—Part V, Engineering Services—for further information on the mechanical services and electrical installation. Structural elements, floor coverings, non-specialised heating and lighting fittings and similar items which are basic to any building are not included

in the Equipment Note; neither are window blinds and window curtain tracks since the requirements may vary with local circumstances.

Throughout the schedule, for the sake of uniformity, references to towel dispensers are associated with disposal bins for paper towels. Suitable adjustments will need to be made where other types of towel are to be used.

It is for individual hospital authorities to make rules about smoking in the hospitals under their control and management (see Ministry Memorandum H.M. (63) 43) and accordingly no reference is made to ashtrays or to smoking throughout this Note.

IV. Cost

Guidance on the cost of equipping a pathology department to the standard shown in this schedule is given against the list of equipment for each room. Departmental cost summaries are shown in the Appendix to the Note. In using these cost figures, the considerations referred to in Section IV of Equipment Note No. 1 should be borne in mind.

The cost figures in this schedule and in the Appendix are related only to Group II and Group III equipment. As a matter of convenience, Group I items of a specialised nature are listed in each room schedule, but these have already been taken into account in the cost allowance for construction (including engineering), in the appropriate cost in Appendix E to Hospital Building Note No. 2.

V. List of Rooms, etc.

A. **Basic accommodation**	Page reference
(*a*) Entrance	
(i) Patients' waiting room	3
(ii) Patients' lavatories	3
(iii) Patients' examination rooms	4
(iv) Clerical suite	5
(*b*) Administration	
(i) Pathologists' rooms	6
(ii) Registrar's room	8
(iii) Head technician's room	8
(*c*) Morbid anatomy and morbid histology division	
(i) General laboratory	9
(ii) Specimen cutting room	11
(iii) Cytodiagnosis room(s)	12
(*d*) Chemical pathology division	
(i) General laboratory	13
(ii) Balance and instrument room	15
(iii) Chromatography room	15
(*e*) Haematology division	
(i) General laboratory	16
(ii) Transfusion laboratory	17
(iii) Blood bank	18
(*f*) Microbiology division	
(i) General laboratory	18
(ii) Virology laboratory	20
(iii) Serology laboratory	21
(iv) Media room	22
(v) Sterilising room	23
(vi) Plate preparation room	23
(*g*) Service rooms	
(i) Outfit preparation room	23
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(vi) Wash-up	25
(*h*) Staff rooms	
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(ii) Cloakrooms and lavatories	26
(*i*) Cleaners' room	27
Departmental items	27

B. Additional accommodation	
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(*b*) Tuberculosis laboratory	29
(*c*) Trace element laboratory	29
(*d*) Blood donors' room	30
(*e*) Photomicrography room(s)	30
(*f*) Isotope laboratories	32
(*g*) Research laboratories	32
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(*j*) Museum	33
(*k*) Mounting and preparation room	33
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VI. Schedule of Equipment

A Basic Accommodation

(*a*) ENTRANCE

(i) *Patients' waiting room*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group I:					
Board, notice	1	1	1	1	
Group IIb:					
Seating	24	16	16	16	A variety of chairs of matching design, with and without arms should be provided.
Hat, coat and umbrella stand ..	1	1	1	1	
Table, occasional, low	3	2	2	2	
Group III:					
Bin, waste paper	2	1	1	1	
Cost Guide (excluding Group I)	£160	£105	£105	£105	

(ii) *Patients' lavatories*

The following will be required for each sex.

		Quantity	*Notes*
Basic List			
Group I:	W.C. suite	1	
	Toilet paper fitting	1	
	Hook, clothes	2	
	Basin, lavatory	1	
	Mirror	1	
	Shelf	1	
	Dispenser, soap	1	
Group IIa:	Dispenser, towel	1	B.S. 1439.
Group IIb:	Bin, pedal operated	1	If required.
	Bin, disposal for paper towels	1	
Group III:	Brush, lavatory and holder	1	
	Cost Guide (excluding Group I)	£3	

(*a*) ENTRANCE (continued)

(iii) *Patients' examination room (with adjacent cubicle)*

		Quantity	*Notes*
Basic List			
Group I:	Basin, lavatory, with elbow action taps	1	
	Lamp, adjustable	1	
	Hook, clothes	2	
	Socket outlet, twin	2	
	Storage, cupboard, small	1	For cotton wool, pads, etc.
Group IIa:	Dispenser, paper couch covers	1	
Group IIb:	Couch, examination	1	B.S. 2838.
	Desk	1	
	Chair, upright, small	2	
	Chair, with arms, or with separate armrest	1	For blood taking.
	Trolley, dressings	1	B.S. 3236. Or small table.
	Bin, disposal, or paper sack-holder	2	
	Bin, disposal, for paper couch covers	1	
	Steps, couch	1	
	Scales, weighing, patients'	1	
Group III:	Blanket	4	
	Pillow	2	B.S. 1899.
	Case, pillow	6	
	Sheet, draw	6	
	Sphygmomanometer	1	B.S. 2743 or B.S. 2744.
	Tourniquet	1	
	Tray, stainless steel	1	
	Cost Guide (excluding Group I)	£110	
Cubicle			
Group I:	W.C. suite or clinette	1	
	Toilet paper fitting	1	
	Hook, clothes	2	
	Basin, lavatory	1	
	Dispenser, soap	1	
	Mirror	1	
	Shelf, small	1	
Group IIa:	Dispenser, towel	1	B.S. 1439.
Group IIb:	Bin, disposal, for paper towels	1	
Group III:	Brush, lavatory, and holder	1	
	Bottle, urine	2	B.S. 3215.
	Glass, specimen	9	
	Cost Guide (excluding Group I)	£3	

(*a*) ENTRANCE (*continued*)

(*iv*) *Clerical suite*

The schedules for this section have been based on a complement of six clerks for the larger unit and four for the smaller units. It has been assumed that in the larger unit five clerks would be housed in area (*c*) and one in area (*b*), whilst in the smaller units all four clerks would be housed in area (*c*), since the duties carried out in areas (*a*) and (*b*) are unlikely to occupy one clerk full-time.

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
(*a*) *Reception of patients*					
Group I:					
Counter, reception	1	1	1	1	With counter type bell and small cupboard fitted under as a composite unit for the storage of some specimen containers in case issue to patients is necessary.
Clock, electric	1	1	1	1	
Board, notice	1	1	1	1	
Telephone	1	1	1	1	
Group IIb:					
Stool, tall	1	1	1	1	
Group III:					
Desk set	1	1	1	1	E.g. pen stand, blotting pad, trays, etc., according to individual requirements.
Bin, waste paper	1	1	1	1	
Cost Guide (excluding Group I)	£7	£7	£7	£7	
(*b*) *Reception, recording and distribution of specimens*					
Group I:					
Basin, lavatory	1	1	1	1	
Dispenser, soap	1	1	1	1	
Hatch, or counter	1	1	1	1	For the delivery of trays of specimens. The hatch could be provided with sliding doors.
Socket outlet, twin	1	1	1	1	
Telephone	1	1	1	1	
Group IIa:					
Dispenser, towel	1	1	1	1	B.S. 1439.
Group IIb:					
Bin, disposal, for paper towels	1	1	1	1	
Desk	1	1	1	1	
Chair, desk	1	1	1	1	
Table	1	1	1	1	For specimens.
Group III:					
Bin, waste paper	1	1	1	1	
Clock, chronostamp	1	1	1	1	
Desk set	1	1	1	1	E.g. pen stand, blotting pad, etc., according to individual requirements.
Tray, metal or strong plastic	4	4	4	4	For carrying specimens and forms to laboratories.
Sundry office requisites ..	As required	As required	As required	As required	E.g. stapler, punch, scissors, ruler, etc. It has been assumed that all typing of report forms will be carried out in area (*c*).
Cost Guide (excluding Group I)	£35	£35	£35	£35	

A. Basic Accommodation

(*a*) ENTRANCE

(iv) *Clerical suite (continued)*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					If a photocopying machine is used for the production of reports this will greatly reduce the amount of typing; the numbers of staff and typewriters will depend on the procedures adopted in the office.
(*c*) *General clerical work and storage of current records*					
Group I:					
Board, notice	1	1	1	1	
Socket outlet, twin	1	1	1	1	
Telephone	1	1	1	1	
Group IIb:					
Desk, typist	5	4	4	4	
Chair, typist	5	4	4	4	
Chair, upright, small	1	1	1	1	For staff visiting office.
Cupboard, stationery	1	1	1	1	
Cabinet, filing, various	As required	As required	As required	As required	For reports and records. These will vary in size and number with system adopted and may be sited in the laboratory.
Cabinet, card index	As required	As required	As required	As required	
Cabinet, filing, 4-drawer	1	1	1	1	For correspondence.
Group III:					
Bin, waste paper	5	4	4	4	
Tray, filing	10	8	8	8	
Typewriter	As required	As required	As required	As required	Dependent on use of photocopying machine.
Sundry office requisites	As required	As required	As required	As required	E.g. stapler, punch, scissors, ruler, etc.
Cost Guide (excluding Group I)	£370	£305	£305	£305	
Additional List					
Group IIb:					
Photocopying machine	1	1	1	1	
Cost Guide (additional list)	£70	£70	£70	£70	

(*b*) ADMINISTRATION

(i) *Pathologist's room(s)*

This can be fitted as a combined office and laboratory or these can be separately provided within the area indicated in the Building Note schedules.

In addition to the equipment listed below some instruments and apparatus, which are shown in the general laboratories of the various divisions of the department, may be located here in the Pathologist's room.

		Quantity	*Notes*
Basic List			
Office area			
Group I:	Board, notice	1	
	Socket outlet, twin	1	
	Telephone	1	
Group IIb:	Bookcase	1	Or book shelves.
	Chair, arm	1	
	Chair, desk	1	
	Chair, upright, small	2	For visitors.
	Desk	1	
	Cabinet, filing, four-drawer	1	
	Illuminator, X-ray viewing, small	1	Portable. For use throughout department.
	Locker, clothes	1	Or small wardrobe or clothes hooks.
	Table, side, small	1	
Group III:	Bin, waste paper	1	
	Desk set	1	E.g. pen stand, blotting pad, trays, etc., according to individual requirements.
	Rack, filing, five-tier	1	
	Cost Guide (excluding Group I)	£120	

(*b*) ADMINISTRATION (continued)

(i) *Pathologist's room(s)* (*continued*)

		Quantity	*Notes*
Basic List			
Laboratory area			
Group I:	Basin, lavatory	1	
	Benching, laboratory	As required	
	Adjustable lighting over benching	As required	
	Dispenser, soap	1	
	Gas point, twin outlet	1	For each 6 ft. of laboratory benching.
	Sink, laboratory, with laboratory type fittings	1	
	Socket outlet, twin, trunking system	1	For each 3 ft. of laboratory benching.
	Storage, cupboard, drawer or shelf	As required	
	Chalkboard	1	B.S. 3030. Part IV.
	Clock, electric	1	May have sweep-second hand.
Group IIa:	Dispenser, towel	1	B.S. 1439.
Group IIb:	Cabinet, filing, for microslides	1	For histology, haematology and microbiology divisions.
	Chair or stool, laboratory	2	
	Table, small	1	
	Bin, disposal, for paper towels	1	
Group III:	Bin, disposal, small	1	
	Bucket	1	
	Microscope and accessories	1	Except in chemical pathology division. In remaining three divisions the type of microscope will vary.
	Cost Guide (excluding Group I)	£30	Plus £400 for microscope and accessories.
Additional List			**Cost Guide** (additional list)
Office area			
Group III:	Recorder, tape, with foot control	1	£60.
Laboratory area			
Group IIb:	Screen, projection	1	£8.
Group III:	Projector, slide	1	£37.
	Box, storage, slide 2 in. × 2 in., capacity 150 slides	1	£1.
	Box, transit, wooden 2 in. × 2 in. slide	1	£1.

(*b*) ADMINISTRATION (continued)

(ii) *Registrar's room*

		Quantity	*Notes*
Basic List			
Group I:	Basin, lavatory, with elbow action taps ..	1	
	Benching, laboratory	As required	
	Socket outlet, twin	1	
	Gas point, twin outlet	1	
	Hook, clothes	2	
	Chalkboard	1	B.S. 3030, Part IV.
	Telephone	1	
Group IIb:	Stool, laboratory	2	
	Desk	1	
	Cabinet, filing, four-drawer	1	
	Chair, upright, small	1	
	Chair, desk	1	
	Bookcase	1	
Group III:	Bin, waste paper	1	
	Desk set	1	E.g. pen stand, blotting pad, trays, etc., according to individual requirements.
	Microscope and accessories	1	
	Cost Guide (excluding Group I)	£395	

(iii) *Head technician's room*

		Quantity	*Notes*
Basic List			
Group I:	Basin, lavatory, with elbow action taps ..	1	
	Board, notice	1	
	Socket outlet, twin	1	
	Telephone	1	
	Hook, clothes	2	
	Storage, cupboard or shelf	As required	
Group IIb:	Desk	1	
	Chair, desk	1	
	Chair, upright, small	1	
	Cabinet, filing, four-drawer	1	
	Cabinet, filing, card index	3	
	Table, side, small	1	
	Bookcase	1	
Group III:	Bin, waste paper	1	
	Desk set	1	E.g. pen stand, blotting pad, trays, etc., according to individual requirements.
	Cost Guide (excluding Group I)	£95	

(c) MORBID ANATOMY AND MORBID HISTOLOGY DIVISION

(i) *General laboratory*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group I:					
Benching, laboratory ..	As required	As required	As required	As required	
Lighting fitting, adjustable ..	As required	As required	As required	As required	It may be necessary to augment the general lighting directly over work benches.
Basin, lavatory, with elbow action taps	1	1	1	1	
Storage, cupboard, drawer and shelf	As required	As required	As required	As required	
Sink, laboratory, with laboratory type fittings	As required	As required	As required	As required	
Gas point, twin outlet	1	1	1	1	For each 6 ft. of laboratory benching.
Socket outlet, twin trunking system	1	1	1	1	For each 3 ft. of laboratory benching.
Telephone	1	1	1	1	
Clock, electric	1	1	1	1	May have a sweep second hand.
Dispenser, soap	1	1	1	1	
Chalkboard	1	1	1	1	B.S. 3030, Part IV.
Group IIa:					
Dispenser, towel	1	1	1	1	B.S. 1439.
Group IIb:					
Chair or stool, laboratory ..	6	4	6	2	
Chair, upright, small	1	1	1	1	
Cabinet, filing, paraffin block..	1	1	1	1	
Cabinet, filing, microslides ..	1	1	1	1	
Table, small	1	1	1	1	
Pump, rotary, vacuum/pressure	1	1	1	1	
Stand, cylinder, carbon dioxide	1	1	1	—	
Bin, disposal, for paper towels..	1	1	1	1	
Group III:					
Balance, student's	1	1	1	1	
Bath, embedding, vacuum ..	1	1	1	1	
Bin, waste or paper sack holder	1	1	1	1	
Bath, paraffin section mounting	2	1	2	—	
Bucket	1	1	1	1	
Clock, interval timing, 60 mins.	1	1	1	1	
Diamond, glass writing.. ..	2	2	2	2	
Cylinder, carbon dioxide ..	4	2	4	—	
Freezing equipment for microtome	1	1	1	1	
General glassware	As required	As required	As required	As required	
Knife, for microtomes	17	13	17	2	
Laboratory sundries	As required	As required	As required	As required	
Microscope and accessories ..	2	1	2	1	As required depending on preference.
Microtome, rocker/rotary/sledge or freezing	4	3	4	1	
Mould, brass, embedding, with baseplate	24	12	24	4	
Oven and bath, embedding, electric	2	1	2	—	
Porcelain ware	As required	As required	As required	As required	
Scales	1	1	1	1	For weighing specimens.
Tissue processing machine, automatic	3	2	3	—	
Pot, wax melting	1	1	1	1	
Stopwatch	1	1	1	1	
Tray, filing	3	3	3	3	
Weights 0–200 grms. (set) ..	1	1	1	1	
Cost Guide (excluding Group I)	£2340	£1590	£2340	£575	

(*c*) MORBID ANATOMY AND MORBID HISTOLOGY DIVISION (continued)

(i) *General laboratory* (continued)

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Additional List					**Cost Guide** (additional list)
Group IIb:					
Cryostat	1	1	1	—	£340.
Group III:					
Microtome, knife sharpening machine	1	—	1	—	£190.
Microtome, large, sledge ..	1	—	1	—	£150.
Hotplate, bench, electric ..	1	1	1	—	£7.

(*c*) MORBID ANATOMY AND MORBID HISTOLOGY DIVISION (continued)

(ii) *Specimen—cutting room*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Notes*
Basic List				
Group I:				
Basin, lavatory, with elbow action taps	1	1	1	
Sink, belfast	1	1	1	
Storage, cupboard, drawer and shelf	As required	As required	As required	
Benching, laboratory	As required	As required	As required	
Sink, laboratory, with laboratory type fittings	1	1	1	
Table, dissecting, special	1	1	1	
Lighting fitting, adjustable	As required	As required	As required	It may be necessary to augment the general lighting directly over work benches.
Gas-point, twin outlet	1	1	1	
Socket outlet, twin	1	1	1	
Dispenser, soap	1	1	1	
Waste disposal unit	1	1	1	
Extract fan	1	1	1	
Group IIa:				
Dispenser, towel	1	1	1	B.S. 1439.
Group IIb:				
Bin, disposal, for paper towels	1	1	1	
Chair or stool, laboratory	2	1	2	
Group III:				
Bin, waste, large	2	1	2	
Bucket	1	1	1	
Balance, beam type	1	1	1	A spring balance may be preferred as an alternative.
Board, dissecting	1	1	1	
Catlin	1	1	1	
Drill, hand	1	1	1	
Forceps, Spencer Wells (pairs)	2	2	2	
Forceps, dissecting, toothed (pairs)	3	3	3	
Forceps, dissecting, ordinary (pairs)	6	6	6	B.S. 2821
Forceps, artery (pairs)	2	2	2	
Forceps, spring cornet (pairs)	2	2	2	
General glassware	As required	As required	As required	
Knife, brain	2	2	2	
Knife, palette	1	1	1	
Knife, amputation, 6 in.	2	2	2	
Knife, amputation, 8 in.	1	1	1	
Knife, amputation, 10 in.	1	1	1	
Laboratory sundries	As required	As required	As required	
Machine, buffing and grinding	1	1	1	
Oilstone	1	1	1	
Scissors, various (pairs)	6	4	6	
Tray, filing	3	3	3	
Saw, post-mortem	2	1	2	
Scalpel, various	6	4	6	
Weights 0–500 gms. (set)	1	1	1	
Cost Guide (excluding Group I)	£205	£155	£205	
Additional List				**Cost Guide** (additional list)
Group IIb:				
Saw, band or circular	1	1	1	£100.
Group III:				
Vice, bench (carpenters' type)	1	1	1	£4.

(*c*) MORBID ANATOMY AND MORBID HISTOLOGY DIVISION (continued)

(iii) *Cytodiagnosis room(s)*

The items listed below are based on present requirements, and these will need to be reviewed with the likely increase in procedures undertaken in this room.

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Notes*
Basic List				Blackout facilities may be needed in this room.
Group I:				
Basin, lavatory, with elbow action taps	1	1	1	
Benching, laboratory	As required	As required	As required	
Lighting fitting, adjustable	As required	As required	As required	It may be necessary to augment the general lighting directly over work benches.
Storage, cupboard, drawer and shelf	As required	As required	As required	
Sink, laboratory, with laboratory type fittings	As required	As required	As required	
Socket outlet, twin trunking system	1	1	1	For each 3 ft. of laboratory benching.
Gas-point, twin outlet	1	1	1	
Chalkboard	1	1	1	B.S. 3030, Part IV.
Group IIa:				
Dispenser, towel	1	1	1	B.S. 1439.
Group IIb:				
Cabinet, filing, two-drawer	1	1	1	
Chair, upright, small	1	1	1	
Chair or stool, laboratory	2	2	2	
Desk or table	1	1	1	
Bin, disposal, for paper towels	1	1	1	
Group III:				
Bath, water, electric, thermostatic	1	1	1	
Box, storage, slide 2 in. × 2 in., 150 slides (approx.)	1	1	1	
Bucket	1	1	1	
Centrifuge, bench, 200 ml. capacity	1	1	1	
Clock, interval timing 60 mins.	1	1	1	
Desk set	1	1	1	E.g. pen stand, blotting pad, trays, etc., according to individual requirements.
Hood, inoculating	1	1	1	
Incubator, bacteriological, electric	1	1	1	
Microscope and accessories	2	2	2	
General glassware	As required	As required	As required	
Laboratory sundries	As required	As required	As required	
Tray, filing	3	3	3	
Cost Guide (excluding Group I)	£930	£930	£930	
Additional List				
Group III:				
Automatic staining machine	1	1	1	
Cost Guide (additional list)	£150	£150	£150	

(*d*) CHEMICAL PATHOLOGY DIVISION

(i) *General laboratory*

Basic List	*Department serving about 600–800 acute beds*	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Group I:					
Basin, lavatory, with elbow action taps	1	1	1	1	
Sink, belfast, and drainer	1	1	1	1	
Board, notice	1	1	1	1	
Chalkboard	1	1	1	1	B.S. 3030, Part IV.
Benching, laboratory	As required	As required	As required	As required	
Lighting fitting, adjustable	As required	As required	As required	As required	It may be necessary to augment the general lighting directly over work benches.
Clock, electric	1	1	1	1	May have sweep second hand.
Storage, cupboard, drawer, shelf and racking	As required	As required	As required	As required	
Gas point, twin outlet	1	1	1	1	For each 6 ft. of laboratory benching.
Dispenser, soap	1	1	1	1	
Fume cupboard	2	1	1	2	With built-in exhaust fans. To discharge to the open air away from all windows or ventilation openings.
Deioniser, water, small	1	1	—	1	
Socket outlet, twin trunking system	1	1	1	1	For each 3 ft. of laboratory benching
Telephone	1	1	1	1	
Sink, laboratory, with laboratory type fittings	As required	As required	As required	As required	
Still, electric or steam, small	1	1	1	1	
Group IIa:					
Cabinet, deep freeze	1	—	—	1	
Dispenser, towel	1	1	1	1	B.S. 1439.
Group IIb:					
Bin, disposal, for paper towels	1	1	1	1	
Refrigerator, 10 cu. ft.	1	1	—	1	Size may be reduced if a Cold Room is provided.
B.M.R. apparatus	1	1	—	1	Appropriate to "Metabolic Suite" where provided.
Compressor, air, for flame photometer	1	1	—	1	
Pump, rotary, vacuum/pressure	2	1	—	2	
Bin, disposal or paper sack holder	1	1	1	1	
Chair or stool, laboratory	7	5	2	7	
Chair, upright, small	1	1	1	1	
Table	1	1	1	1	
Group III:					
Automatic analysis equipment	1	1	—	1	
Balance, beam type	1	1	1	1	
Balance, centrifuge tube	1	1	1	1	
Balance, student's	1	1	1	1	
Barometer	1	1	1	1	
Bath, water, boiling, circular, gas or electric	3	2	1	3	
Bath, water, thermostatic, electric	2	1	—	2	
Bath, sand, electric	1	1	—	1	
Bin, waste paper	1	1	1	1	
Burette, micro, Conway	1	1	—	1	
Capillator outfit	1	1	—	1	
Centrifuge, bench, electric, 200 ml. (approx.) capacity	3	2	1	3	
Centrifuge, bench, electric, 1,000 ml. (approx.) capacity	1	1	—	1	
Clock, interval timing, 60 mins.	4	3	1	4	
Cutter, glass tubing	1	1	—	1	
Comparator, Lovibond, with discs	1	1	—	1	
Colorimeter, photo-electric	2	1	1	2	
Electrophoresis apparatus: (Tank (Power Pack (Densitometer	1	1	—	1	

A. Basic Accommodation

(*d*) CHEMICAL PATHOLOGY DIVISION (continued)

(i) *General laboratory* (*continued*)

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group III (*continued*):					
Flame photometer	1	1	—	1	
Freeze dryer	1	1	—	1	For use throughout Department.
Furnace, muffle	1	1	—	1	
Gas analysis apparatus, manometric, Van Slyke	1	1	—	1	
General glassware	As required	As required	As required	As required	
Graduated glassware	As required	As required	As required	As required	
Hairdryer, electric	1	1	—	1	
Hotplate, bench, round, electric	2	1	—	2	
Hotplate, bench, rectangular, electric	1	1	—	1	
Homogeniser	1	1	—	1	
Laboratory sundries	As required	As required	As required	As required	
Lamp, ultra violet	1	1	—	1	
Mixer, cell suspension	1	1	—	1	
Microscope and accessories	1	1	—	1	
Micrometer syringe pipette	1	1	—	1	
Oven, general purpose, electric	3	2	1	3	
Plastic ware	As required	As required	As required	As required	
Porcelain ware	As required	As required	As required	As required	
Proteinometer set, complete	1	1	—	1	
pH meter, portable, range pH 0–14	1	1	—	1	
Shaker, electric	1	1	—	1	
Slide rule	2	1	—	2	
Spectrophotometer, u.v. and visual	1	1	—	1	
Spectroscope, reversion, Hartridge	1	1	—	1	
Spectroscope, hand	1	1	—	1	
Apparatus, digestion, microkjeldahl, with stand	1	1	—	1	
Stirrer, magnetic and hotplate	1	—	—	1	
Stirrer, electric	1	1	—	1	
Stopwatch	1	1	—	1	
Tray, filing	3	3	3	3	
Weights, 1–1,000 gms., (set)	1	1	1	1	
Weights, analytical, for student's balance	1	1	1	1	
Washer, pipette, automatic	2	1	—	2	
Cost Guide (excluding Group I)	£6890	£6265	£435	£6890	
Additional List					**Cost Guide** (additional list)
Group III:					
Fluorimeter	1	—	—	1	£430.
Blood gas analysis equipment	1	—	—	1	£560.
Polarograph	1	—	—	1	£520.
Titrator, electrometric	1	—	—	1	£70.
Calculating machine	1	—	—	1	£85.
Gas chromatography apparatus	1	—	—	1	£1000.
Micro analytical system	1	—	—	1	£600.
Warburg apparatus	1	—	—	1	£392.
Avo-meter	1	—	—	1	£25.
Refractometer	1	—	—	1	£130.
Osmomometer	1	—	—	1	£500.

(*d*) CHEMICAL PATHOLOGY DIVISION (continued)

(ii) *Balance and instrument room*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List				
Group I:				
Bench, vibration free	As required	As required	As required	
Lamp, adjustable	As required	As required	As required	
Storage, cupboard	As required	As required	As required	
Chalkboard	1	1	1	B.S. 3030, Part IV.
Group IIb:				
Chair or stool, laboratory	2	2	2	
Group III:				
Balance, analytical	4	3	3	
Weights, micro-chemical	1	1	1	
Weights, analytical, Grade A	3	2	3	
Cost Guide (excluding Group I)	£605	£480	£490	

(iii) *Chromatography room*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List				
Group I:				
Benching, laboratory	As required	As required	As required	
Storage, cupboard, drawer and shelf	As required	As required	As required	
Fume cupboard	1	1	1	
Sink, laboratory, with laboratory type fittings	As required	As required	As required	
Socket outlet, twin trunking system	1	1	1	For each 3 ft. of laboratory benching.
Gas point, twin outlet	1	1	1	
Deioniser, water, small	1	1	1	
Group IIb:				
Chair or stool, laboratory	1	1	1	
Cylinder, nitrogen (120 cu. ft.) and stand	1	1	1	
Group III:				
Bin, disposal	1	1	1	
Cylinder, nitrogen (18 cu. ft.)	3	1	3	
Chromatography apparatus, thin layer	1	1	1	
Desalting apparatus	1	1	1	
Oven, drying, chromatography	1	1	1	
Tank, chromatography, frames, troughs, etc.	As required	As required	As required	
Ultra-filtration apparatus	1	1	1	
Cost Guide (excluding Group I)	£360	£360	£360	
			Cost Guide (additional list)	
Additional List				
Group III:				
Electrophoresis apparatus, high voltage	1	—	1	£680 — Could be in another laboratory.
Fraction collector	1	—	1	£240 — Could be in another laboratory.

A. Basic Accommodation

(*e*) HAEMATOLOGY DIVISION

(i) *General laboratory*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group I:					
Basin, lavatory, with elbow action taps	1	1	1	1	
Bench, microscope	As required	As required	As required	As required	For each technician.
Benching, laboratory	As required	As required	As required	As required	
Storage, cupboard, drawer and shelf	As required	As required	As required	As required	
Gas point, twin outlet	1	1	1	1	For each 6 ft. of laboratory benching.
Lighting fitting, adjustable	As required	As required	As required	As required	It may be necessary to augment the general lighting directly over work benches.
Socket outlet, twin trunking system	1	1	1	1	For each 3 ft. of laboratory benching.
Telephone	1	1	1	1	
Clock, electric	1	1	1	1	May have a sweep second hand.
Board, notice	1	1	1	1	
Sink, laboratory, with laboratory type fittings	As required	As required	As required	As required	
Chalkboard	1	1	1	1	B.S. 3030, Part IV.
Group IIa:					
Dispenser, towel	1	1	1	1	B.S. 1439.
Group IIb:					
Bin, disposal, for paper towels	4	4	4	2	
Chair or stool, laboratory	8	6	8	2	
Cabinet, deep freeze —20 C.	1	1	1	1	
Cabinet, filing, for microslides	2	2	2	2	
Pump, electric, vacuum/pressure	1	1	1	—	
Refrigerator, 10 cu. ft.	1	1*	1	1*	*May have deep freeze compartment.
Table, small	1	1	1	1	
Group III:					
Bath, water, prothrombin	1	1	1	1	
Bath, water, electric, thermostatic	2	2	2	1	
Bath, water, portable, electric, thermostatic	1	1	1	1	
Balance, student's, with weights	1	1	1	1	
Balance, centrifuge tube, 500 gm. capacity	1	1	1	1	
Balance, analytical, with weights	1	—	1	—	
Box, viewing	1	1	1	1	
Bin, waste disposal, or paper sack holder	4	4	4	2	
Bin, waste paper	4	4	4	2	
Case, fibre, for sample collection	4	4	4	2	Or suitable alternative, e.g. trays.
Centrifuge, micro-haematocrit, electric	2	2	2	1	
Centrifuge, angle, 6 or 12 cup head, electric	1	1	1	1	
Centrifuge, bench, electric, 200 ml. capacity	3	3	3	1	
Clock, interval timer, 60 mins.	3	2	3	1	
Cell-counter, automatic	1	1	1	—	
Colorimeter, photo-electric	2	2	2	1	
General glassware	As required	As required	As required	As required	
Graduated glassware	As required	As required	As required	As required	
Laboratory sundries	As required	As required	As required	As required	
Microscope and accessories	6	3	6	1	Depending on the number of technicians.
Mixer, cell suspension	2	1	2	—	
Slide rule	1	1	1	—	
Stopwatch	5	4	5	1	
Tray, filing	3	3	3	3	
Washer, pipette, automatic	2	1	2	1	
Washer, Wintrobe tube	1	1	1	1	
Cost Guide (excluding Group I)	£3265	£2395	£3265	£960	

(e) HAEMATOLOGY DIVISION (continued)

(i) *General laboratory* (continued)

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Additional List					**Cost Guide** (additional list)
Group III:					
Automatic analysis equipment for haemoglobin determination	1	1	1	—	£1500.
Automatic blood film staining-machine	1	1	1	—	£150.
Prothrombin meter	1	1	1	—	£160.
Shaker, pipette	1	1	1	—	£20.
Counter, differential, blood cell	—	1	1	—	£100.
Haemoglobinometer	1	1	1	—	£70.

(ii) *Transfusion laboratory*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Notes*
Basic List				
Group I:				
Benching, laboratory	As required	As required	As required	
Board, notice	1	1	1	
Sink, laboratory, with laboratory type fittings	As required	As required	As required	
Storage, cupboard, drawer and shelf	As required	As required	As required	
Gas point, twin outlet	1	1	1	
Lighting fitting, adjustable	As required	As required	As required	It may be necessary to augment the general lighting directly over work benches.
Socket outlet, twin trunking system	1	1	1	For each 3 ft. of laboratory benching.
Telephone	1	1	1	
Clock, electric	1	1	1	May have a sweep second hand.
Chalkboard	1	1	1	B.S. 3030, Part IV.
Group IIa:				
Dispenser, towel	1	1	1	B.S. 1439.
Group IIb:				
Bin, disposal, for paper towels	4	2	4	
Centrifuge, refrigerated, floor model, electric, 4000 ml. capacity	1	1	1	
Chair or stool, laboratory	4	2	4	
Table, small	1	1	1	
Cabinet, filing, for microslides	1	1	1	
Cabinet, deep freeze −20°C.	1	1	1	
Group III:				
Bath, water, electric, thermostatic	2	1	2	
Balance, centrifuge tube	1	1	1	
Case, fibre, for sample collecting	1	1	1	
Clock, interval timer, 60 mins.	1	1	1	
Clock, interval timer, 4 hr.	1	1	1	
General glassware	As required	As required	As required	
Graduated glassware	As required	As required	As required	
Incubator, bacteriological, electric	2	1	2	
Centrifuge, angle, or swing out head, electric	4	3	4	
Centrifuge, 200 ml. capacity, electric	1	1	1	
Laboratory sundries	As required	As required	As required	
Microscope and accessories	2	1	2	
Tray, filing	3	3	3	
Cost Guide (excluding Group I)	£1495	£1080	£1495	

(*e*) HAEMATOLOGY DIVISION (continued)

(iii) *Blood bank*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group I:					
Refrigerator (free standing) ..	As required	As required	As required	As required	Refrigerators should be specifically designed for blood storage and should operate at 4°C to 6°C and be equipped with suitable alarms and a temperature recording device.
Chalkboard	1	1	1	1	B.S. 3030, Part IV. For recording stocks.
Worktop, small	1	1	1	1	
Group IIb:					
Box, blood transit, 10, 6 and 3 bottle	12	8	8	8	
Cost Guide (excluding Group I)	£85	£55	£55	£55	

(*f*) MICROBIOLOGY DIVISION

(i) *General laboratory*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group I:					
Benching, laboratory.. ..	As required	As required	As required	As required	
Lighting fitting, adjustable ..	As required	As required	As required	As required	It may be necessary to augment the general lighting directly over work benches.
Basin, lavatory, with elbow action taps	1	1	1	1	
Sink, laboratory, with laboratory type fittings	As required	As required	As required	As required	
Sink, staining	As required	As required	As required	As required	
Storage, cupboard, drawer and shelf	As required	As required	As required	As required	
Safety cabinet, with exhaust fan	1	1	—	1	To discharge to the open air away from all windows or ventilation openings.
Chalkboard	1	1	1	1	B.S. 3030, Part IV.
Telephone	1	1	1	1	
Gas point, twin outlet ..	1	1	1	1	For each 6 ft. of laboratory benching.
Socket outlet, twin trunking system	1	1	1	1	For each 3 ft. of laboratory benching.
Clock, electric..	1	1	1	1	May have a sweep second hand.
Dispenser, soap	1	1	1	1	
Group IIa:					
Dispenser, towel ..	1	1	1	1	B.S. 1439.
Group IIb:					
Bin, disposal, for paper towels	1	1	1	1	
Centrifuge, electric, 1,000 ml. capacity	1	1	—	1	
Chair or stool, laboratory ..	6	4	2	6	
Cylinder, CO_2, in stand ..	1	1	1	1	
Cylinder, hydrogen, in stand	2	2	1	2	
Refrigerator, 10 cu. ft. ..	1	1	—	1	
Cabinet, filing, for microslides	1	1	—	1	
Pump, rotary, vacuum/pressure, electric	2	1	—	2	

A. Basic Accommodation

(*f*) MICROBIOLOGY DIVISION (continued)

(i) *General laboratory (continued)*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group III:					
Balance, analytical aperiodic	1	1	1	1	
Balance, beam	1	1	1	1	
Balance, centrifuge tube	1	1	1	1	
Balance, student's	1	1	1	1	
Bath, water, boiling, constant level, gas or electric	1	1	1	1	
Bath, water, thermostatic, electric	2	1	1	2	
Bin, waste paper	1	1	1	1	
Bin, disposal	3	2	1	3	
Bowl, plastic, 12 in.	6	4	2	6	B.S. 3094, Part I.
Bucket	6	4	2	6	
Centrifuge, bench, 200 ml. capacity	2	1	1	2	
Clock, interval timer, 60 mins.	2	1	1	2	
General glassware	As required	As required	As required	As required	
Graduated glassware	As required	As required	As required	As required	
Incubator, bacteriological, electric	6 (2)	4 (2)	2	6 (2)	If a Hot Room is provided (see Additional Accommodation) the provision can be reduced to the numbers shown in the brackets.
Jar, anaerobic	4	2	1	4	
Laboratory sundries	As required	As required	As required	As required	
Porcelain ware	As required	As required	As required	As required	
Microscope and accessories	6	3	2	4	Depending on number of technicians.
Oven, hot air, electric	1	1	—	1	
Still, all glass	1	—	—	1	
Tray, filing	3	3	3	3	
Stopwatch	2	1	1	2	
Shaker, Kahn, and racks	1	1	—	1	
Viewer, for agglutination tubes	1	1	—	1	
Cost Guide (excluding Group I)	£3155	£2130	£1100	£2805	
Additional List					**Cost Guide** (additional list)
Group III:					
Phage typing machine	1	1	—	1	£40.
pH meter	1	1	—	1	£90.

(*f*) MICROBIOLOGY (continued)

(ii) *Virology laboratory*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List				
Group I:				
Basin, lavatory, with elbow action taps	1	1	1	
Chalkboard	2	1	2	B.S. 3030, Part IV.
Benching, laboratory	As required	As required	As required	
Lighting fittings, adjustable	As required	As required	As required	It may be necessary to augment the general lighting directly over the work benches.
Deioniser, water, small	1	1	1	
Storage, cupboard, drawer and shelf	As required	As required	As required	
Sink, laboratory, with laboratory type fittings	As required	As required	As required	
Board, notice	1	1	1	
Gas point, twin outlet	1	1	1	
Socket outlet, twin trunking system	1	1	1	For each 3 ft. of laboratory benching.
Clock, electric	1	1	1	May have a sweep second hand.
Dispenser, soap	1	1	1	
Group IIa:				
Dispenser, towel	1	1	1	B.S. 1439.
Group IIb:				
Bin, disposal, for paper towels	1	1	1	
Cabinet, filing, foolscap	2	2	2	
Chair or stool, laboratory	3	2	3	
Cabinet, safety	1	1	1	
Cabinet, deep freeze	1	1	1	
Group III:				
Autoclave, bench	1	1	1	
Bath, water, boiling, constant level, gas or electric	1	1	1	
Bucket, plastic	6	4	6	B.S. 3094, Part 2
Bin, disposal	2	2	2	
Container for solid carbon dioxide blocks	1	1	1	
Drill, complete	1	1	1	
Flask, vacuum	2	2	2	For solid CO_2.
General glassware	As required	As required	As required	
Graduated glassware	As required	As required	As required	
Homogeniser	1	1	1	
Incubator, bacteriological, electric	1	1	1	
Incubator, egg	2	2	2	Fifty egg capacity.
Laboratory sundries	As required	As required	As required	
Microscope and accessories	1	1	1	
Oven, hot air, electric	1	1	1	
Washer, pipette, automatic	1	1	1	
Cost Guide (excluding Group I)	£1050	£940	£1050	
Additional List				**Cost Guide** (additional list)
Group IIb:				
Apparatus for freeze drying	1	1	1	£180.
Centrifuge, refrigerated, 1,000 ml. capacity	1	1	1	£720.
Group III:				
Apparatus for holding liquid nitrogen	1	1	1	£50.
Balance, centrifuge tube	1	1	1	£6.
Roller tube, virus tissue culture apparatus	1	1	1	£100.

(*f*) MICROBIOLOGY DIVISION (continued)

(iii) *Serology laboratory*

Basic List	*Department serving about 600–800 acute beds*	*Department serving about 400 acute beds*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Group I:				
Basin, laboratory, with elbow action taps	1	1	1	
Benching, laboratory	As required	As required	As required	
Lighting fitting, adjustable	As required	As required	As required	It may be necessary to augment the general lighting directly over the work benches.
Storage, cupboard, drawer or shelf	As required	As required	As required	
Sink, laboratory, with laboratory type fittings	As required	As required	As required	
Gas point, twin outlet	As required	As required	As required	
Socket outlet, twin trunking system	1	1	1	For each 3 ft. of laboratory benching.
Clock, electric	1	1	1	May have a sweep second hand.
Dispenser, soap	1	1	1	
Chalkboard	1	1	1	B.S. 3030, Part IV.
Group IIa:				
Dispenser, towel	1	1	1	B.S. 1439.
Group IIb:				
Bin, disposal, for paper towels	1	1	1	
Chair or stool, laboratory	2	2	2	
Cabinet, deep freeze −20 C.	1	1	1	
Refrigerator, 10 cu. ft.	1	1	1	
Group III:				
Bath, water, thermostatic, electric	2	2	2	
Balance, beam type	1	1	1	
Balance, centrifuge tube	1	1	1	
Bin, waste paper	2	2	2	
Box, viewing	1	1	1	
Centrifuge, bench, capacity 200 ml.	2	1	2	
Clock, interval timing, 60 mins.	1	1	1	
Filter, Seitz type	4	2	4	
General glassware	As required	As required	As required	
Graduated glassware	As required	As required	As required	
Incubator, bacteriological, electric	1	1	1	
Laboratory sundries	As required	As required	As required	
Pump, vacuum/pressure, electric	1	1	1	
Bucket	2	2	2	
Tray, filing	3	3	3	
Cost Guide (excluding Group I)	£1045	£805	£1045	

(*f*) MICROBIOLOGY DIVISION (continued)

(iv) *Media room (including a draught-free cubicle, for plate pouring)*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group I:					
Storage, cupboard, drawer and shelf	As required	As required	As required	As required	
Benching, laboratory	As required	As required	As required	As required	
Sink, laboratory, with laboratory type fittings	As required	As required	As required	As required	
Socket outlet, twin	2	2	2	2	
Gas point, twin outlet	1	1	1	1	
Chalkboard	1	1	1	1	B.S. 3030, Part IV.
Clock, electric	1	1	1	1	
Group IIb:					
Chair or stool, laboratory	3	2	1	3	
Steamer	1	1	1	1	
Refrigerator, 20 cu. ft.	1	1	1	1	Unless Cold Room is provided.
Group III:					
Balance, beam type	1	1	1	1	
Boiler, water, electric	1	1	1	1	
Clock, interval timing, 60 mins.	2	1	1	2	
Bucket, stainless steel	4	2	2	4	
Comparator, Lovibond, with discs	1	1	1	1	
Filling apparatus, automatic, for media	1	1	1	1	
Filter, Seitz type	3	2	1	3	
Filter, porcelain	2	1	—	2	
General glassware	As required	As required	As required	As required	
Graduated glassware	As required	As required	As required	As required	
Inspissator	1	1	1	1	
Laboratory sundries	As required	As required	As required	As required	
Mincing machine	1	—	—	1	
Plate pouring cubicle					
Group I:					
Worktop	As required	As required	As required	As required	
Lighting fittings, adjustable	As required	As required	As required	As required	
Storage, cupboard, drawer and shelf	As required	As required	As required	As required	
Gas point, twin outlet	1	1	1	1	
Socket outlet, twin	1	1	1	1	
Group III:					
Bath, water, electric, thermostatically controlled (18 in. × 12 in.)	1	1	—	1	
Cost Guide (excluding Group I)	£600	£500	£400	£600	

(*f*) MICROBIOLOGY DIVISION (continued)

(v) *Sterilising room*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group I:					
Autoclave	2	1	1	2	
Sink	As required	As required	As required	As required	
Worktop	As required	As required	As required	As required	
Storage, cupboard, drawer and shelf	As required	As required	As required	As required	
Still, steam	1	1	1	1	A still (or deioniser) may be needed in addition to the one in the washing room. When a steam supply is not available the stills may be either gas or electrically heated and permanently connected to the source of heat.
Dispenser, soap	1	1	1	1	
Gas point, twin outlet	1	1	1	1	
Socket outlet, twin	2	2	2	2	
Group IIa:					
Dispenser, towel	1	1	1	1	B.S. 1439.
Group IIb:					
Bin, disposal, for paper towels	1	1	1	1	
Trolley, general purpose	1	1	1	1	B.S. 3132.
Group III:					
Laboratory sundries	As required	As required	As required	As required	
Steriliser, hot air	2	1	1	2	
Cost Guide (excluding Group I)	£225	£130	£120	£225	

(vi) *Plate preparation room*

		Quantity	*Notes*
Basic List			
Group I:	Worktop	As required	
	Storage, cupboard, drawer and shelf	As required	
	Sink	As required	
	Cost Guide (excluding Group I)	£—	

(*g*) SERVICE ROOMS

(i) *Outfit preparation room*

		Quantity	*Notes*
Basic List			
Group I:	Storage, cupboard, drawer, shelving and racking	As required	
	Sink	1	
	Chalkboard	1	B.S. 3030, Part IV.
	Worktop	As required	
Group IIb:	Chair or stool	2	
	Bin, disposal	1	
Group III:	Bin, waste paper	1	
	Labelling device or equipment	1	
	Cost Guide (excluding Group I)	£20	

(*g*) SERVICE ROOMS (continued)

(ii) *Centrifuge room*

		Quantity	*Notes*
Basic List			
Group I:	Benching, vibration free	As required	
	Socket outlet, twin	As required	
	Storage, cupboard, small	As required	For centrifuge accessories.
Group III:	Centrifuges	—	These have already been provided for in the various departments.
	Cost Guide (excluding Group I)	£—	

(iii) *Workshop*

		Quantity	*Notes*
Basic List			
Group I:	Work bench, strong, with fitted vice	1	Special features, i.e. asbestos top and suitable background, may be required for glass blowing.
	Sink, belfast	1	
	Socket outlet, twin	2	
	Gas point, twin outlet	2	
	Storage, cupboard, drawer and shelf	As required	
	Dispenser, soap	1	
	Telephone	1	
Group IIa:	Dispenser, towel	1	B.S. 1439.
Group IIb:	Bin, disposal, for paper towels	1	
	Compressor, air	1	
	Stool, laboratory	2	
	Cylinder, oxygen, with stand	1	
Group III:	Blowpipe, glass blowing	1	
	Callipers	1	
	Centre punch	1	
	Charger, battery	1	
	Cutter, glass tube	1	
	Drill, electric, with stand	1	
	Drill, hand	1	
	File, round	2	
	File, flat	2	
	File, glass cutting	12	
	File, needle	12	
	File, half round	2	
	Hammer	1	
	Micrometer	1	
	Pliers, snipe nosed (pairs)	1	
	Pliers, round nosed (pairs)	1	
	Pliers, diagonal cutting (pairs)	1	
	Rule, steel	1	
	Saw, hack	1	
	Screwdriver, ratchet	1	
	Screwdriver, instrument (set)	1	
	Scriber	1	
	Snips, tin (pairs)	1	
	Soldering iron, electric	1	
	Spanners, various (set)	1	
	Tools, glass blowing (set)	1	
	Vice, small	1	
	Tools, carpenter's (set)	1	
	Twist drill, high speed (set)	1	
	Twist drill, glass	2	
	Cost Guide (excluding Group I)	£125	
Additional List			**Cost Guide** (additional list)
Group IIb:	Lathe, small	1	£13.
	Saw, circular	1	£6.

(iv) *Disposal room*

		Quantity	*Notes*
Basic List			
Group I:	Storage, shelf	As required	
	Worktop, small	1	
Group IIb:	Bin, disposal, or paper sack holder	4	
	Cost Guide (excluding Group I)	£20	

(*g*) SERVICE ROOMS (continued)

(v) *Stores*

Storage will be required for records, slides, wax blocks, specimens, poisons, etc., distributed throughout the department. A main central store, fitted with racks, is needed for glassware, and other items. Stocks of flammable liquids should be kept in an easily accessible fire-resisting store of about 50 sq. ft. outside the main building.

	Quantity	*Notes*
Basic List		
Group I: Storage, cupboard, racking, cabinet, shelf and drawer	As required	
Group IIb: Ladder, step	1	B.S. 1893
Cost Guide (excluding Group I)	£7	

(vi) *Wash-up*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group I:					
Basin, lavatory	1	1	1	1	
Sink, washing	As required	As required	As required	As required	For washing and rinsing.
Rack, draining	As required	As required	As required	As required	
Slop-hopper or waste disposal unit	1	1	1	1	
Still, steam	1	1	1	1	This will generally be required. When a steam supply is not available the still may be either gas or electrically heated and should be permanently connected to the source of heat. Alternatively, a water deioniser could meet the requirements.
Storage, cupboard	As required	As required	As required	As required	
Socket outlet, twin	1	1	1	1	
Dispenser, soap	1	1	1	1	
Worktop	As required	As required	As required	As required	
Autoclave	1	1	1	1	
Group IIa:					
Dispenser, towel	1	1	1	1	B.S. 1439.
Group IIb:					
Bin, disposal, for paper towels	1	1	1	1	
Chair or stool, laboratory	1	1	1	1	
Cabinet, drying, large	3	2	2	3	
Trolley, general purpose	1	1	1	1	B.S. 3132
Group III:					
Apron, rubber	6	4	4	6	B.S. 2507
Bin, waste paper	1	1	1	1	
Bottlewasher	1	1	1	1	
Bowl	10	10	10	10	B.S. 3094, Part 1
Bucket, mop	1	1	1	1	B.S. 3034
Bucket, plastic	7	4	4	7	B.S. 3094, Part 2
Brush, hand	1	1	1	1	
Brush, various	As required	As required	As required	As required	
Jug, enamel	2	2	2	2	
Laboratory sundries	As required	As required	As required	As required	
Washer, pipette, automatic	1	1	1	1	
Cost Guide (excluding Group I)	£230	£170	£170	£230	
Additional List					
Group IIa:					
Automatic glassware washing machine	1	1	1	1	
Cost Guide (additional list)	£1000	£1000	£1000	£1000	

(*h*) STAFF ROOMS

(i) *Rest Room*

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group I:					
Socket outlet, twin	1	1	1	1	
Clock, electric	1	1	1	1	
Board, notice	1	1	1	1	
Sink	1	1	1	1	
Worktop	1	1	1	1	
Boiling ring	1	1	1	1	If no electric kettle is provided.
Storage, cupboard, small	1	1	1	1	
Group IIa:					
Dispenser, paper tea towel	1	1	1	1	B.S. 1439.
Group IIb:					
Seating	32	16	16	16	Chairs of various types.
Table, occasional, low	6	3	3	3	
Rack, magazine	2	1	1	1	
Stand, hat and coat	2	1	1	1	
Bin, pedal, or paper sack holder	1	1	1	1	
Bin, waste paper	4	2	2	2	
General decorative features	As required	As required	As required	As required	E.g. plant trough, pictures, vases, etc.
Sink tidy	1	1	1	1	
Kettle, electric	1	1	1	1	B.S. 3456 : A3
Cost Guide (excluding Group I)	£280	£155	£155	£155	

(ii) *Cloakrooms and lavatories*

The equipment is shown on a unit basis.

	Quantity	*Notes*
Basic List		
For W.C. Cubicles		
Group I: W.C. suite	1	
Toilet paper fitting	1	
Hook, clothes	1	
Shelf	1	
Group IIb: Bin, pedal operated, as required	1	
Group III: Brush, lavatory, and holder	1	
Cost Guide (excluding Group I)	£2	
For Cloakrooms		
Group I: Basin, lavatory	1	
Mirror	1	For each basin.
Shelf	1	For each basin.
Dispenser, soap	1	For each basin.
Drinking water tap	1	
Group IIa: Dispenser, towel	1	B.S. 1439. For each three or four basins.
Group IIb: Locker, clothes	1	For each member of the staff.
Bin, disposal, for paper towels	1	
Group III: Brush, nail	1	For each basin.
Cost Guide (excluding Group I)	£5	

A. Basic Accommodation

(i) CLEANERS' ROOM

		Quantity	*Notes*
Basic List			
Group I:	Bucket sink	1	
	Storage	18 cu. ft.	For day-to-day stock of cleaning materials, etc.
	Drainer or worktop	1	At working height for washing of cloths, etc.
	Racks, pegs or hooks for implements	As required	
Group IIb:	Trolley, domestic, small	2	
	Holder, paper sack	1	
Group III:	Cleaner, vacuum	1	B.S. 3028.
	Scrubber/polisher, electric	1	B.S. 3456 : B9.
	Cleaning utensils	As required	
	Cost Guide (excluding Group I)	£150	

DEPARTMENTAL ITEMS

	Department serving about 600–800 acute beds	*Department serving about 400 acute beds*	*Hospital "A" specialising in morbid anatomy, morbid histology and haematology*	*Hospital "B" specialising in chemical pathology and microbiology*	*Notes*
Basic List					
Group I:					
Directional signs, door labelling/numbering	As required	As required	As required	As required	
Incinerator	As required	As required	As required	As required	
Group IIa:					
First aid, fire-fighting equipment (e.g. hose reels, extinguishers, buckets, etc.)	As required	As required	As required	As required	See British Standard Codes of Practice and Ministry of Health Memorandum on Hospital Fire Precautions.
Group IIb:					
Trolley, sack	1	1	1	1	
Trolley, general purpose	1	1	1	1	B.S. 3132. Additional to those shown in wash-up and sterilising room.
Group III:					
Books	As required	As required	As required	As required	
Curtaining, window	As required	As required	As required	As required	
Syringes	As required	As required	As required	As required	
First aid kit	1	1	1	1	
Tools, packing-case opening	As required	As required	As required	As required	
Cost Guide (excluding Group I)	£215	£190	£190	£190	

B. Additional Accommodation

(*a*) METABOLIC SUITE

(i) *Curtain fronted cubicle*

		Quantity	*Notes*
Basic List			
Group I:	Fitment, curtain	As required	
	Shelf, small, mirror and coathooks	1	
	Socket outlet, twin	1	
	Lamp, examination	1	
Group IIb:	Couch, examination	1	B.S. 2838.
	Table, side, small	1	
	Chair, upright, small	2	
	Scales, patient's, weighing	1	To be shared between cubicles.
	Measure, height	1	To be shared between cubicles.
	Basal Metabolic Rate Apparatus	1	To be shared between cubicles. It is assumed that further equipment needed would come from the general laboratory.
Group III:	Curtaining	As required	
	Cost Guide (excluding Group I)	£225	

(ii) *Working space for the pathologist*

		Quantity	*Notes*
Basic List			
Group I:	Worktop/desk	1	
Group IIb:	Chair, desk	1	
	Chair, upright, small	1	
Group III:	Bin, waste paper	1	
	Cost Guide (excluding Group I)	£8	

(iii) *Small day room*

		Quantity	*Notes*
Basic List			
Group I:	Socket outlet, single	1	
Group IIb:	Chair, semi-easy	4	
	Table, occasional	1	
	General decorative features	As required	E.g. pictures, vases, etc.
Group III:	Curtaining, window	As required	
	Rug	1	
	Cost Guide (excluding Group I)	£40	

(iv) *Patients' lavatory (adjacent to day room)*

		Quantity	*Notes*
Basic List			
Group I:	W.C. suite	1	
	Toilet paper fitting	1	
	Hook, clothes	1	
	Basin, lavatory	1	
	Mirror	1	
	Shelf	1	
	Dispenser, soap	1	
Group IIa:	Dispenser, towel	1	B.S. 1439.
Group IIb:	Bin, disposal, for paper towels	1	
Group III:	Brush, lavatory, and holder	1	
	Cost Guide (excluding Group I)	£2	

B. Additional Accommodation

(*b*) TUBERCULOSIS LABORATORY

(Associated with microbiological laboratory)

		Quantity	*Notes*
Basic List			
Group I:	Basin, lavatory, with elbow action taps ..	1	
	Benching, laboratory..	As required	
	Lighting fitting, adjustable	As required	It may be necessary to augment the general lighting directly over work benches.
	Sink, laboratory, with laboratory type fittings	1	
	Socket outlet, twin trunking system.. ..	1	For each 3 ft. of laboratory benching.
	Clock, electric..	1	May have a sweep second hand.
	Gas point, twin outlet	1	
	Dispenser, soap	1	
	Chalkboard	1	B.S. 3030, Part IV.
	Safety cabinet, with exhaust fan	1	To discharge to the open air away from windows or ventilation openings.
Group IIa:	Dispenser, towel	1	B.S. 1439.
Group IIb:	Bin, disposal, for paper towels	1	
	Chair or stool, laboratory	2	
Group III:	Balance, centrifuge tube	1	
	Centrifuge, bench, capacity 200 ml. ..	1	
	General glassware	As required	
	Laboratory sundries	As required	
	Incubator, bacteriological, electric	1	
	Microscope and accessories	1	
	Hotplate, electric	1	
	Tray, filing	3	
	Cost Guide (excluding Group I)	£455	

(*c*) TRACE ELEMENT LABORATORY

(Associated with the chemical pathology division)

		Quantity	*Notes*
Basic List			
Group I:	Basin, lavatory, with elbow action taps ..	1	
	Benching, laboratory..	As required	
	Lighting fittings, adjustable	As required	It may be necessary to augment general lighting directly over work benches.
	Sink, laboratory, with laboratory type fittings	1	
	Socket outlet, twin	2	
	Clock, electric..	1	May have a sweep second hand.
	Fume cupboard	1	
Group III:	Tray, filing	1	
	Cost Guide (excluding Group I)	£—	

B. Additional Accommodation

(*d*) BLOOD DONORS' ROOM

		Quantity	*Notes*
Basic List			
Group I:	Basin, lavatory	1	
	Dispenser, soap	1	
	Hook, clothes	4	
	Bell, electric, call	1	
	Socket outlet, twin	1	
	Lamp, examination	1	
Group IIa:	Dispenser, towel	As required	B.S. 1439.
	Dispenser, paper couch cover	1	
Group IIb:	Couch, examination	As required	B.S. 2838.
	Bin, disposal, for paper towels	1	
	Trolley, dressing	1	B.S. 3236 Per couch
	Locker, bedside, or occasional table	1	„ „
	Steps, couch	1	„ „
Group III:	Blanket	2	„ „
	Pillow	2	B.S. 1899 „ „
	Case, pillow	2	„ „
	Splint	1	„ „
	Tourniquet	1	„ „
	Tray, instrument	1	„ „
	Sphygmomanometer	1	B.S. 2743 or B.S. 2744.
	Cost Guide (excluding Group I)	£70	

(*e*) PHOTOMICROGRAPHY ROOM(S)

		Quantity	*Notes*
Basic List			
Photographic Room			
	(This room should be suitably darkened)		
Group I:	Worktop	1	
	Storage, cupboard, drawer and shelf	As required	
	Socket outlet, twin	1	
	Telephone	1	
Group IIb:	Photomicrography equipment, horizontal or vertical	1	
	Stool	1	
Group III:	Meter, exposure	1	
	Slides, dark and/or magazines, film	Various	
	Cost Guide (excluding Group I)	£560	

(*e*) PHOTOMICROGRAPHY ROOM(S) (continued)

		Quantity	*Notes*
Basic List			
Dark Room			
Group I:	Basin, lavatory	1	
	Bench, long	1	
	Bench, dry	1	
	Bench, wet	1	
	Storage, cupboard, drawer and shelf	As required	Including lockable storage.
	Rack, dish, under worktop	As required	
	Sink, shallow	1	For film and print washing tanks. Cold water supply must be clean and it may be necessary to provide a filter for the removal of scale, rust, etc.
	Mixing valve, thermostatic	1	
	Water filter	If required	
	Extract fan	1	
	Bracket, wall, for film hangers	As required	
	Hopper, waste	1	With removable bin.
	Fitting, safe light	4	
	Dispenser, soap	1	
	Socket outlet, twin	2	
Group IIa:	Dispenser, towel	1	B.S. 1439.
Group IIb:			
	Bin, disposal, for paper towels	1	
Group III:	Tank, processing	1	Stainless steel or rubber.
	Tank, deep	1	For washing negatives.
	Washer, print	1	
	Dish, various	12	For developing prints.
	Timer, clockwork	1	
	Bucket	2	
	Thermometer, tank	2	
	Measure, 500 ml.	2	
	Measure, 1,000 ml.	2	
	Funnel, various	As required	
	Bin, waste paper	1	
	Hanger, film, various	As required	
	Cost Guide (excluding Group I)	£100	
Additional List			**Cost Guide** (additional list)
Group IIb:	Enlarger	1	£150.
	Cabinet, drying	1	£40.

(*f*) ISOTOPE LABORATORIES

		Quantity	*Notes*
Basic List			
Group I:	Benching, laboratory	As required	Surface should be of impervious material.
	Lighting fitting, adjustable	As required	It may be necessary to augment the general lighting over work benches.
	Sink, laboratory, with laboratory type fittings	1	The taps and waste should be foot-controlled.
	Storage, cupboard, drawer and shelf	As required	
	Gas point, twin outlet	1	
	Socket outlet, twin trunking system	1	For each 3 ft. of laboratory benching.
	Dispenser, soap	1	
	Chalkboard	1	B.S. 3030, Part IV.
	Fume Cupboard,	1	Fume ventilators must be separate from the main ventilation system and the fan should provide negative pressure in the duct.
Group IIa:	Dispenser, paper towel	1	B.S. 1439
Group IIb:	Bin, disposal, for paper towels	1	
	Chair or stool, laboratory	2	
	Cabinet, filing, card index	1	
	Scintillation head for clinical use	1	With collimators and mounted on a gantry attached to a trolley. Incorporating optical light centring device.
	Lead protection blocks, interlocking	As required	
Group III:	Tray, filing	3	
	Multi-purpose scaler—ratemeter—autotimer	1	
	Ratemeter	1	
	Liquid counter castle with head amplifier	1	
	Planchette castle with head amplifier	1	
	Ionisation chamber radiation monitor	1	
	Field ratemeter with beta geiger counter	1	
	Planchettes	1000	
	Beta and gamma radioactive standards	As required	
	Isotope carriers	As required	
	Handling tools	As required	
	Cost Guide (excluding Group I)	£2000	

(*g*) RESEARCH LABORATORIES

Since the equipment for this laboratory will depend on the nature of the research undertaken, only the basic fittings and furniture, which are unlikely to vary, are shown below.

		Quantity	*Notes*
Basic List			
Group I:	Benching, laboratory	As required	
	Storage, cupboard, drawer and shelf	As required	
	Lighting fittings, adjustable	As required	It may be necessary to augment the general lighting directly over work benches.
	Socket outlet, twin trunking system	1	For each 3 ft. of laboratory benching.
	Sink	As required	
	Gas point, twin outlet	1	For each 6 ft. of laboratory benching.
	Clock, electric	1	May have a sweep second hand.
	Dispenser, soap	1	
Group IIa:	Dispenser, towel	1	B.S. 1439.
Group IIb:	Chair or stool, laboratory	1	For each member of the staff.
	Bin, disposal, for paper towels	1	
Group III:	Bin, waste paper	1	
	Tray, filing	3	
	Cost Guide (excluding Group I)	£10	

(*h*) HOT ROOM

		Quantity	*Notes*
Basic List			
Group I:	Thermostatically controlled heating unit	As required	
	Storage, shelving	As required	
	Warning light, operated by a door switch	1	If no air lock is provided.
	Cost Guide (excluding Group I)	£—	

(*i*) COLD ROOM

		Quantity	*Notes*
Basic List			
Group I:	Cooling plant, automatic	1	With suitable drainage trays.
	Storage, shelving	As required	
	Indicating lamp	1	Fixed outside room to indicate when fan and compressor are working.
	Alarm system	1	Connected with a station which is continuously manned when Cold Room is used as a Blood Bank.
	Cost Guide (excluding Group I)	£ —	

(*j*) MUSEUM

		Quantity	*Notes*
Basic List			
Group I:	Display shelving and cases	As required	
	Socket outlet, twin	1	
Group IIb:	Cabinet filing, four-drawer	1	
	Cabinet, card index	1	
	Cost Guide (excluding Group I)	£25	

(*k*) MOUNTING AND PREPARATION ROOM

		Quantity	*Notes*
Basic List			
Group I:	Basin, lavatory	1	
	Storage, cupboard, rack or shelf	As required	
	Worktop	As required	
	Sink, laboratory, with laboratory type fittings	1	
	Fan, extract	1	
	Lighting fittings, adjustable	As required	
	Gas point, twin outlet	1	
	Socket outlet, twin	1	
	Dispenser, soap	1	
Group IIa:	Dispenser, towel	1	B.S. 1439.
Group IIb:	Chair or stool, laboratory	1	
	Bin, disposal, for paper towels	1	
Group III:	Bin, disposal	1	
	Board, dissecting, large	1	
	Knife, various	As required	
	General glassware	As required	
	Laboratory sundries	As required	
	Forceps, various	As required	
	Cost Guide (excluding Group I)	£70	

(*l*) INCINERATOR ROOM

		Quantity	*Notes*
Basic List			
Group I:	Incinerator	1	Appliance may vary according to requirements.
	Worktop, small	1	
	Cost Guide (excluding Group I)	£—	

Appendix

Pathology Department

DEPARTMENTAL COST SUMMARY

(To be read in conjunction with the explanatory notes in Section IV of this Equipment Note and Section IV of Hospital Equipment Note No. 1)

The room cost guide figures for basic equipment (Groups II and III), applied to standard schedules of basic accommodation for departments of various sizes, suggest departmental equipment cost totals of the following order:

Department serving about 600–800 *acute beds*	*Department serving about* 400 *acute beds*	*Example of a shared service provided at two hospitals, together totalling about* 800 *acute beds*	
		Hospital "A" specialising in morbid anatomy, morbid histology and haematology	*Hospital "B" specialising in chemical pathology and microbiology*
£27,700	£21,800	£14,500	£18,100

In these totals no account is taken of the following:

(*a*) Equipment required for basic accommodation additional to the basic list, some guidance on which is given under the appropriate rooms;

(*b*) Equipment required in "additional accommodation", cost guides for which are shown on the appropriate pages as for basic accommodation.

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Printed in England for HER MAJESTY'S STATIONERY OFFICE by
The Campfield Press, St. Albans

Wt.4525/9599 K.36

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Published by
HER MAJESTY'S STATIONERY OFFICE

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